Biobased Products and Bioenergy Research Program Statistics – FY 2007

- 77 Proposals Submitted
- 20 Awards
  - 14 Standard Awards
  - 2 New Investigator Awards
  - 1 Standard Strengthening Award
  - 2 Seed Awards
  - 1 Equipment Award
- 20% Success Rate
- Average Award Size of $405,000
- Average Award Duration of 3 years

Biobased Products and Bioenergy Research FY 2008 Priorities

1. Improvement/Development of cost effective biocatalysts. The program is specifically seeking applications that produce biocatalysts more resistant to inhibitors, capable of degrading multiple sugar types, and capable of increasing product yield in the biological conversion of agricultural and forestry lignocellulosic biomass to value-added industrial products and fuels.

2. Improved production and processing technologies to facilitate the biological conversion of agricultural and forestry lignocellulosic biomass to aid in the production of high-value industrial biobased products and fuels. The program is seeking applications that specifically address the long term goal of simultaneous saccharification and fermentation and other conversion steps limiting the technical and economic efficiency of the biological production of fuels and industrial biobased products from agricultural and forestry residuals.

3. Novel, cost effective, and affordable agriculturally-based co-products and industrial biobased products that are direct substitutes for traditionally petroleum based products. Products must be innovative and demonstrate the potential for economic competitiveness within the next 10 years.

Biobased Products and Bioenergy Research FY 2008

- Estimated Program Budget of 5.4 Million
- Proposals not meeting stated program priorities will be returned
- Letters of Intent – November 2, 2007

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Nanoscale Science and Engineering for Agriculture and Food Systems

Goals / Priorities

1. Nanoscale recognition, reception, and transmission mechanisms and novel materials for developing nanobased sensors specifically for targets important to food safety and agriculture biosecurity.
2. Novel nanoscale processes, materials, and systems with improved delivery efficacy, controlled release, modification of sensory attributes, and protection of micronutrients and functional ingredients suitable for food matrices.
3. Understanding nanoscale phenomena and processes to support the development of nano-based technologies for food and agricultural product quality monitoring, identity tracking, and preservation.
4. NEW: Assessment and analysis of perceptions and acceptance of nanotechnology and nano-based products by the general public, agriculture, and food stakeholders using appropriate social science tools.

Significant Changes For FY 2008

✓ **MORE MONEY: FY 2007 and 2008 funds are pooled together, thus approximately $5 million available**

✓**NEW: Up to three projects at no more than $200,000 each for project period of 2-4 years (including indirect costs) for addressing societal issues using social sciences**

- ✓ The social science studies must be connected to link to the NRI or other NNI agencies funded research projects relevant to agriculture and food systems – Purpose: to foster multidisciplinary dialogues and collaboration.

Funding Statistics
(FY 2006)

- # submitted: 65
- # awarded: 12
- % success: 18%
- Average award size: $208,333
- Duration (years): 1.8 years
- Other: 1 conference grant